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**Ohio River Division**

# Great Lakes Navigation

- **Water Levels & Dredging**
  **Impacts on Navigation FY 07**

- **Soo Locks Traffic Barometer**

- **FY 08 O&M Funding**

- **Great Lakes St. Lawrence Seaway Study**

**Wayne Schloop, P**
**Chief, Operations**
**Detroit District**

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# Harbors & Channels

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# FY 07 Navigation Season Summary

## Water Levels & Dredging

### "Impacts on Navigation"

- Groundings
- Holland Harbor
- Muskegon Harbor
- Monroe Harbor

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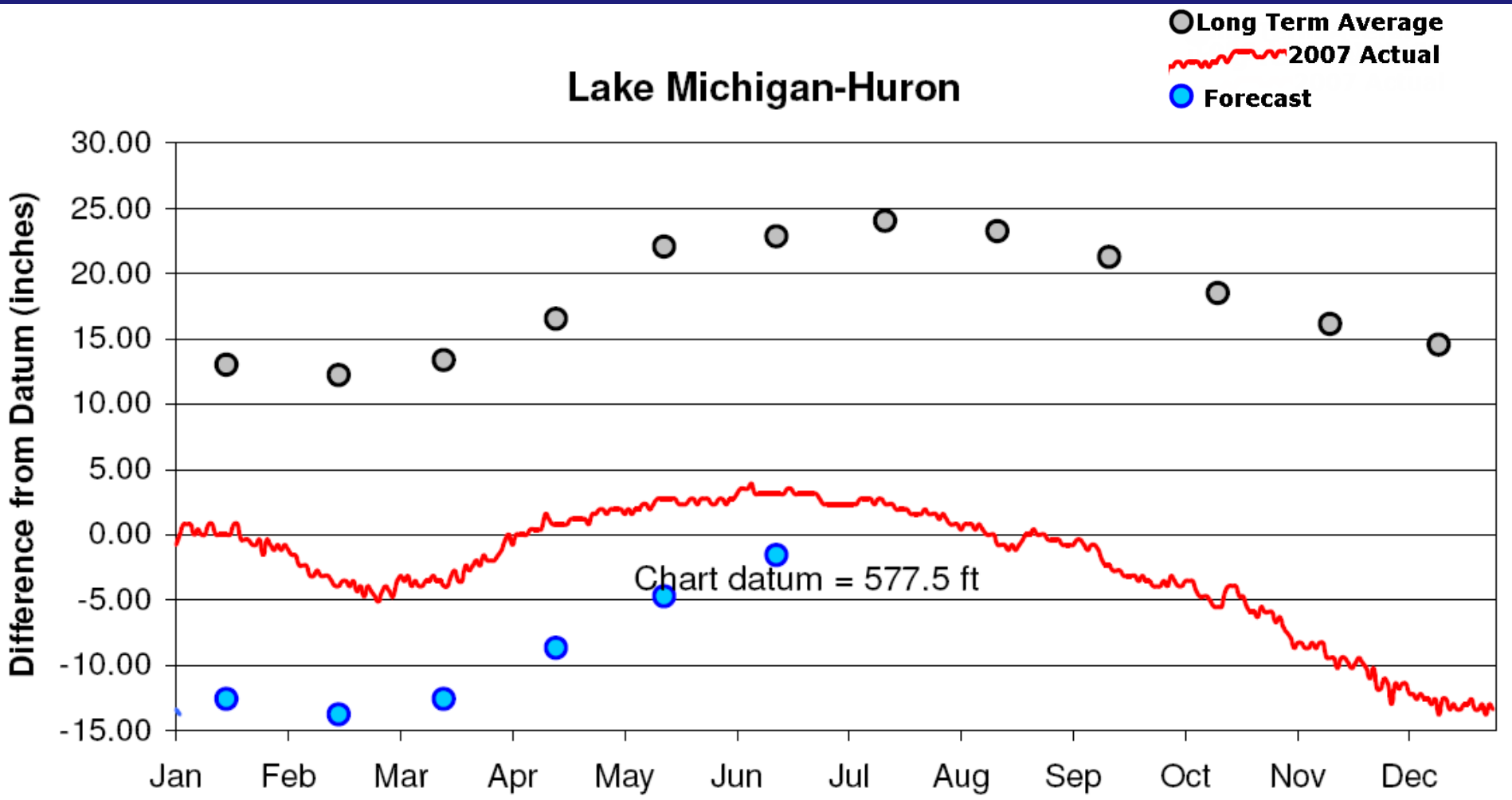
# Current Conditions
# Lake Levels



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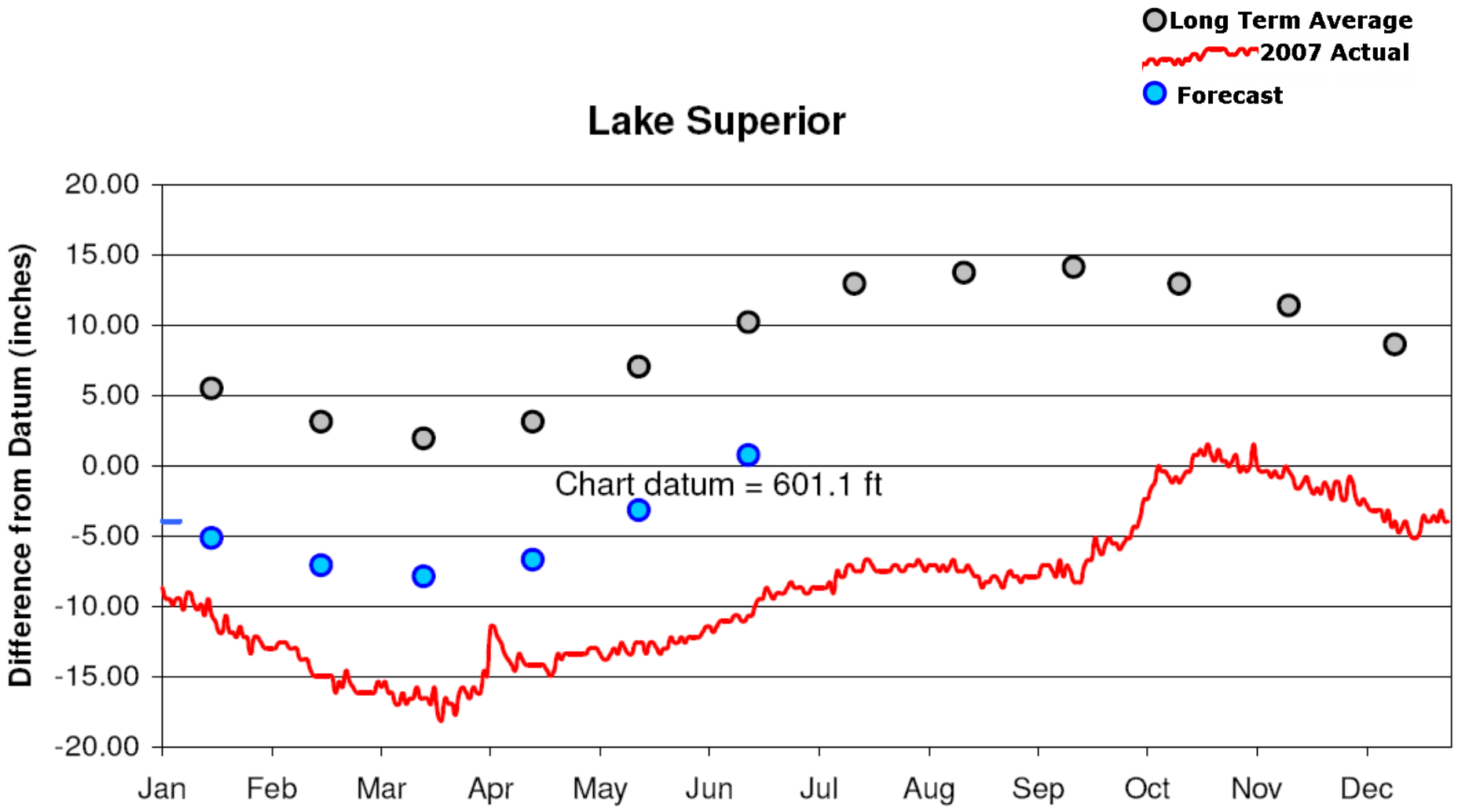
# Current Conditions
# Lake Levels



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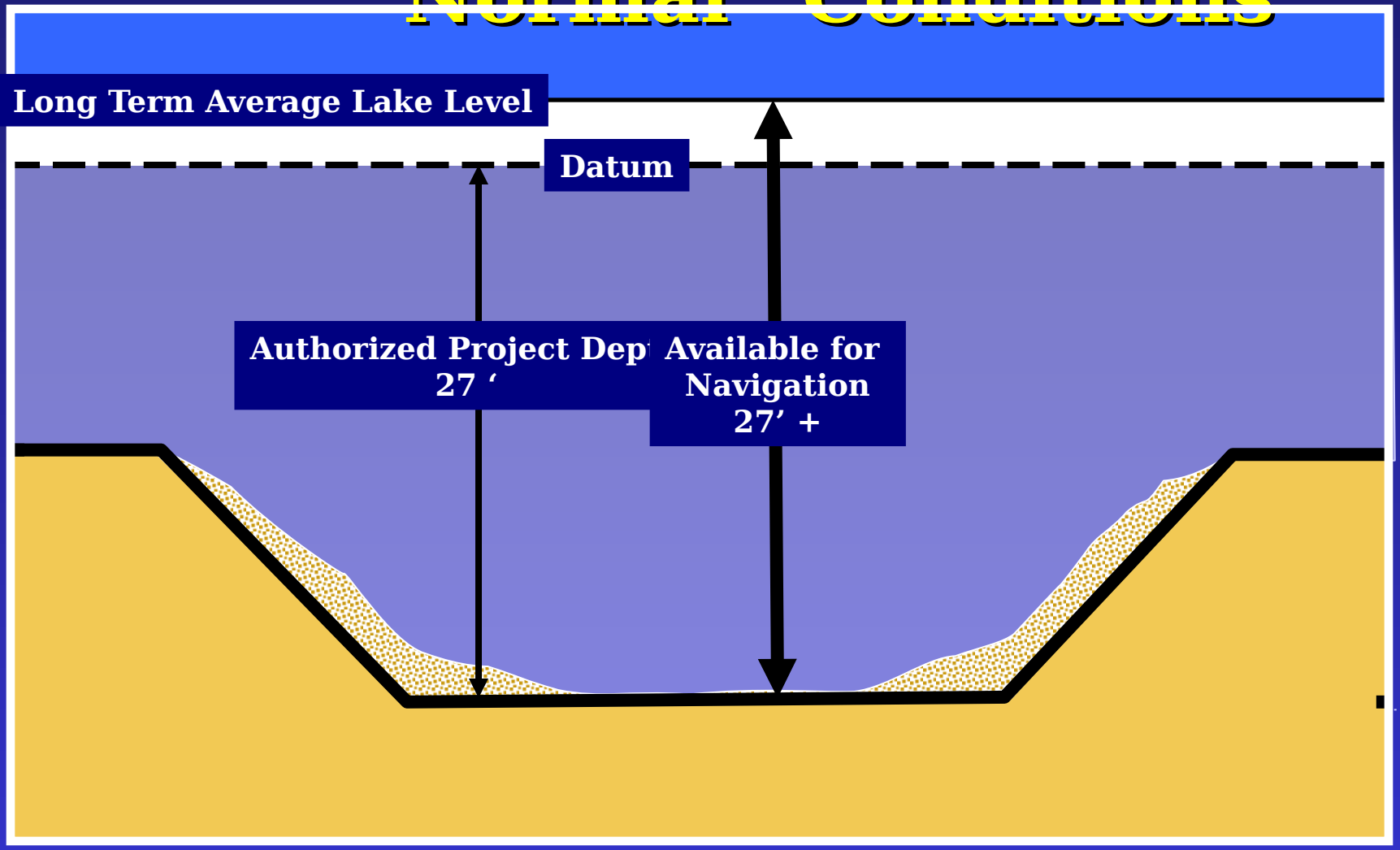
# Historical Water Levels
## "Normal" Conditions



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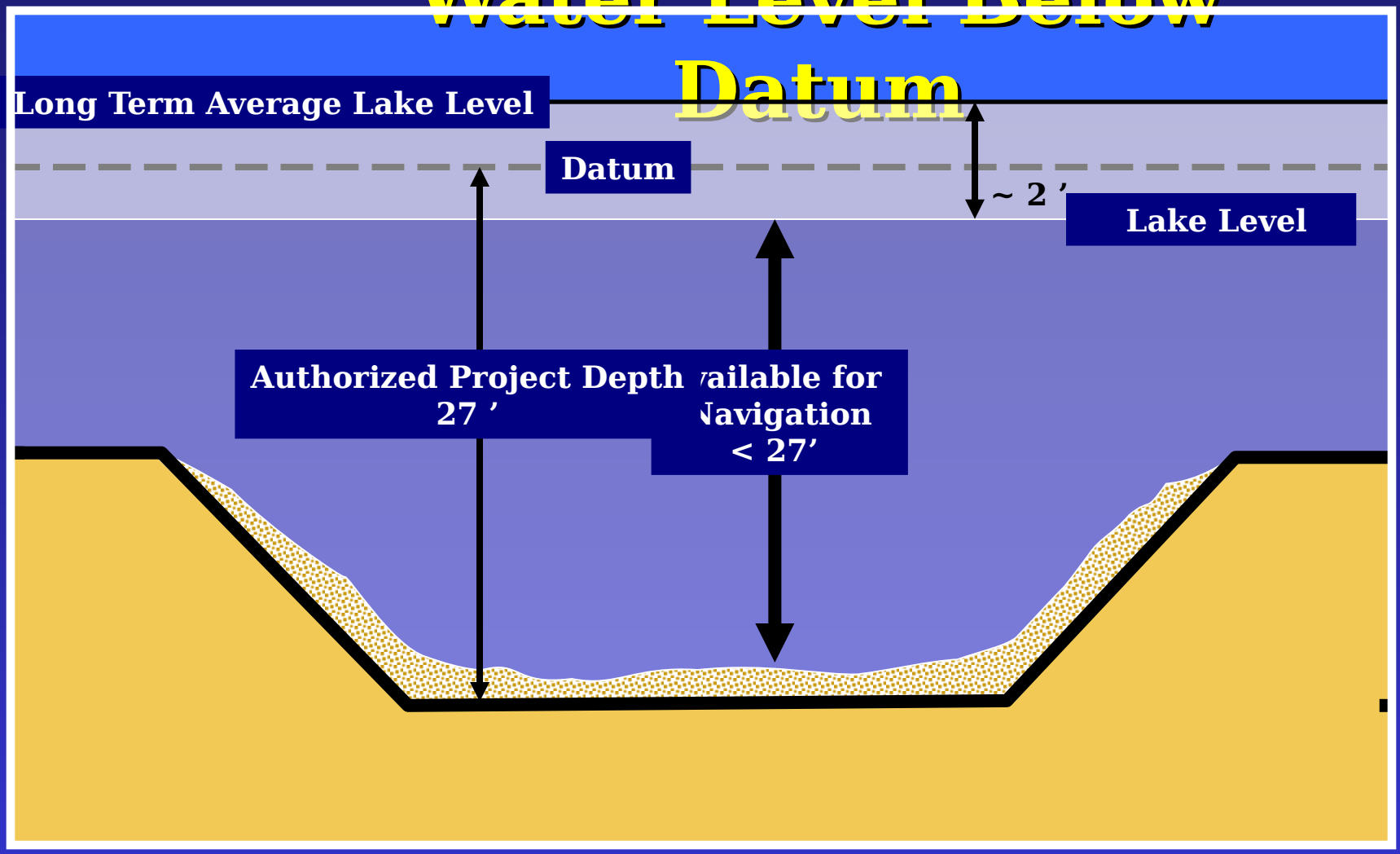
# Conditions: 1999 to 2003

## Water Level Below Datum



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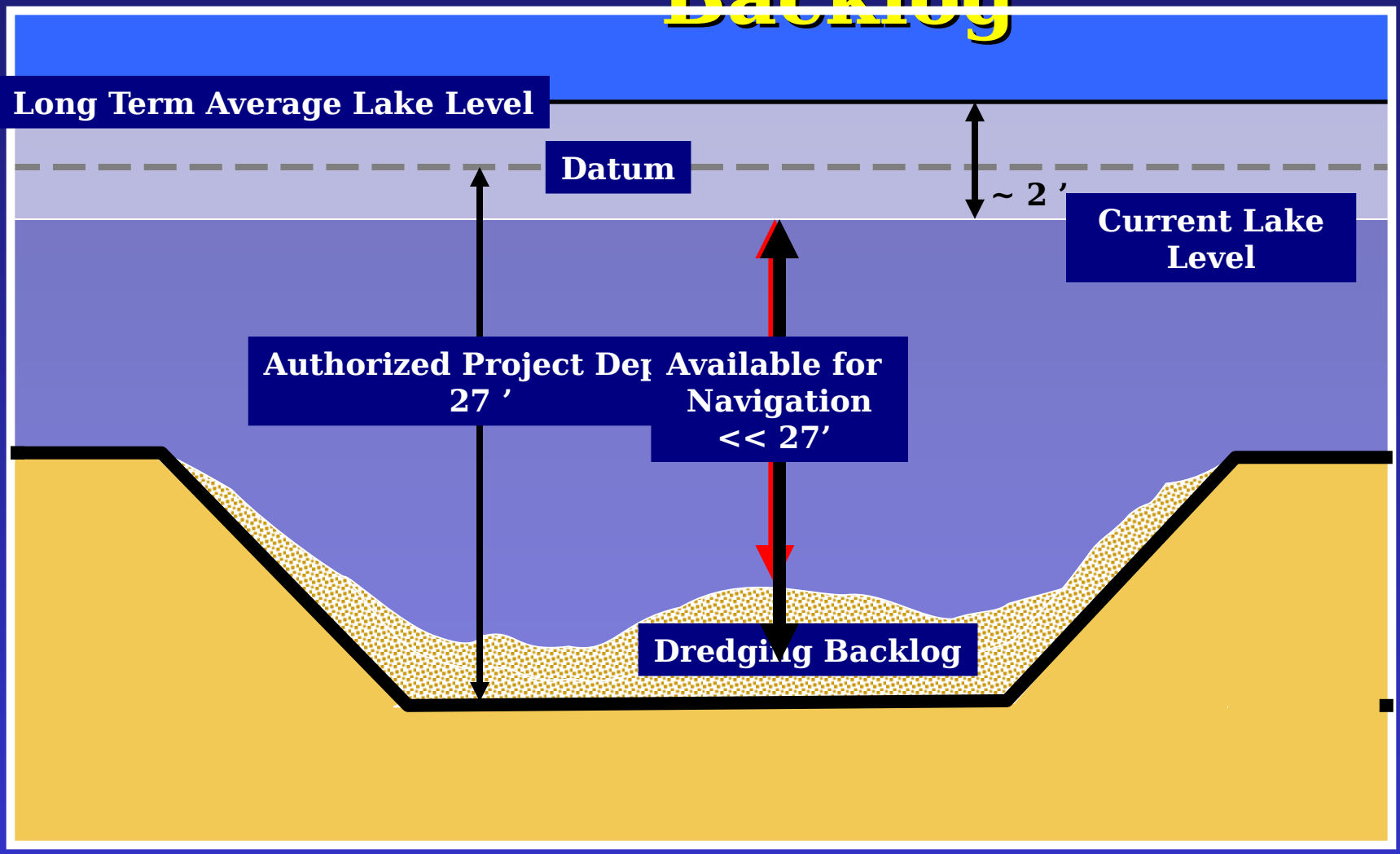
# Current Condition Below Datum w/Dredging Backlog



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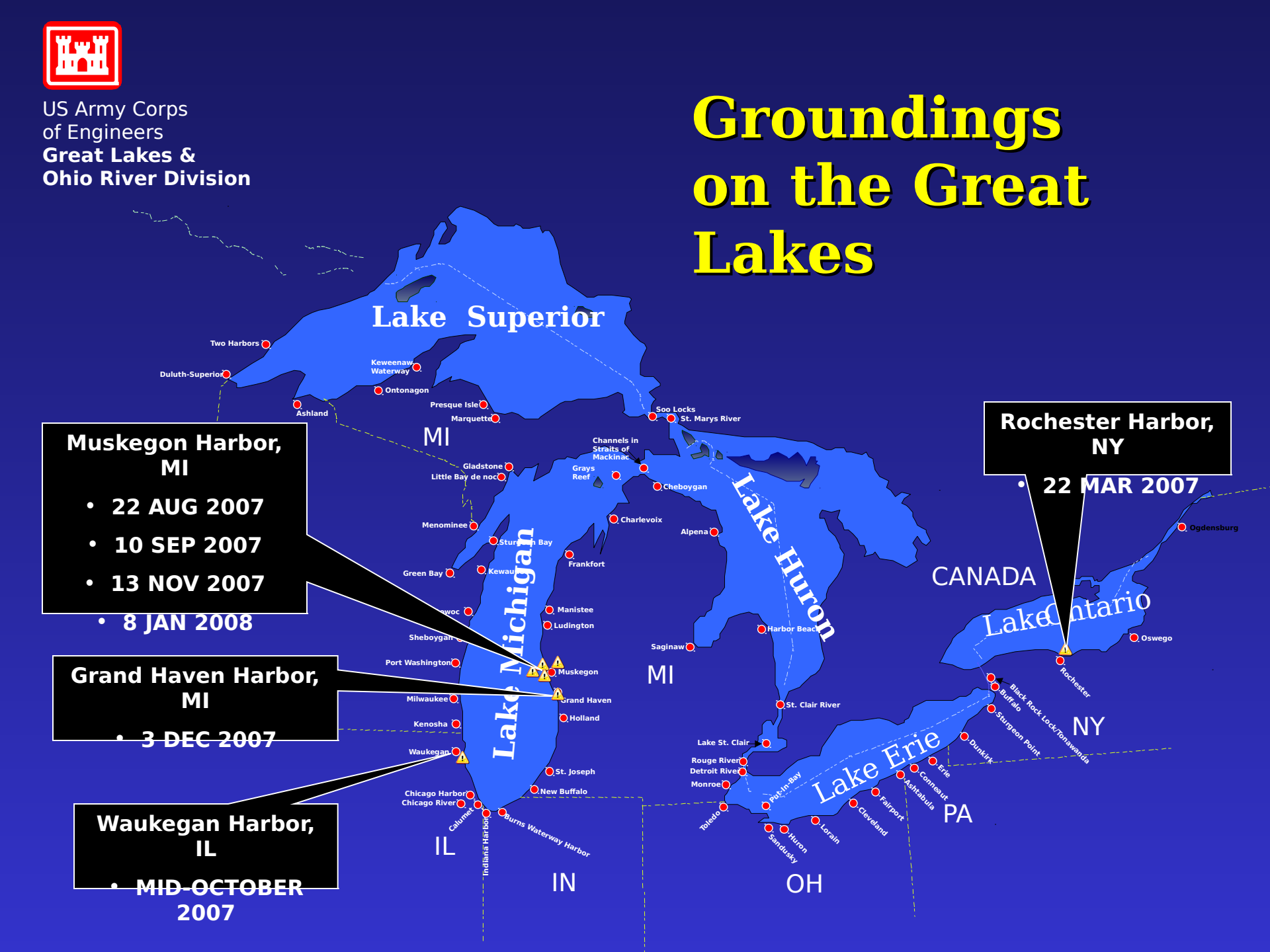
# Groundings on the Great Lakes




**Muskegon Harbor, MI**

- 22 AUG 2007
- 10 SEP 2007
- 13 NOV 2007
- 8 JAN 2008

**Grand Haven Harbor, MI**

- 3 DEC 2007

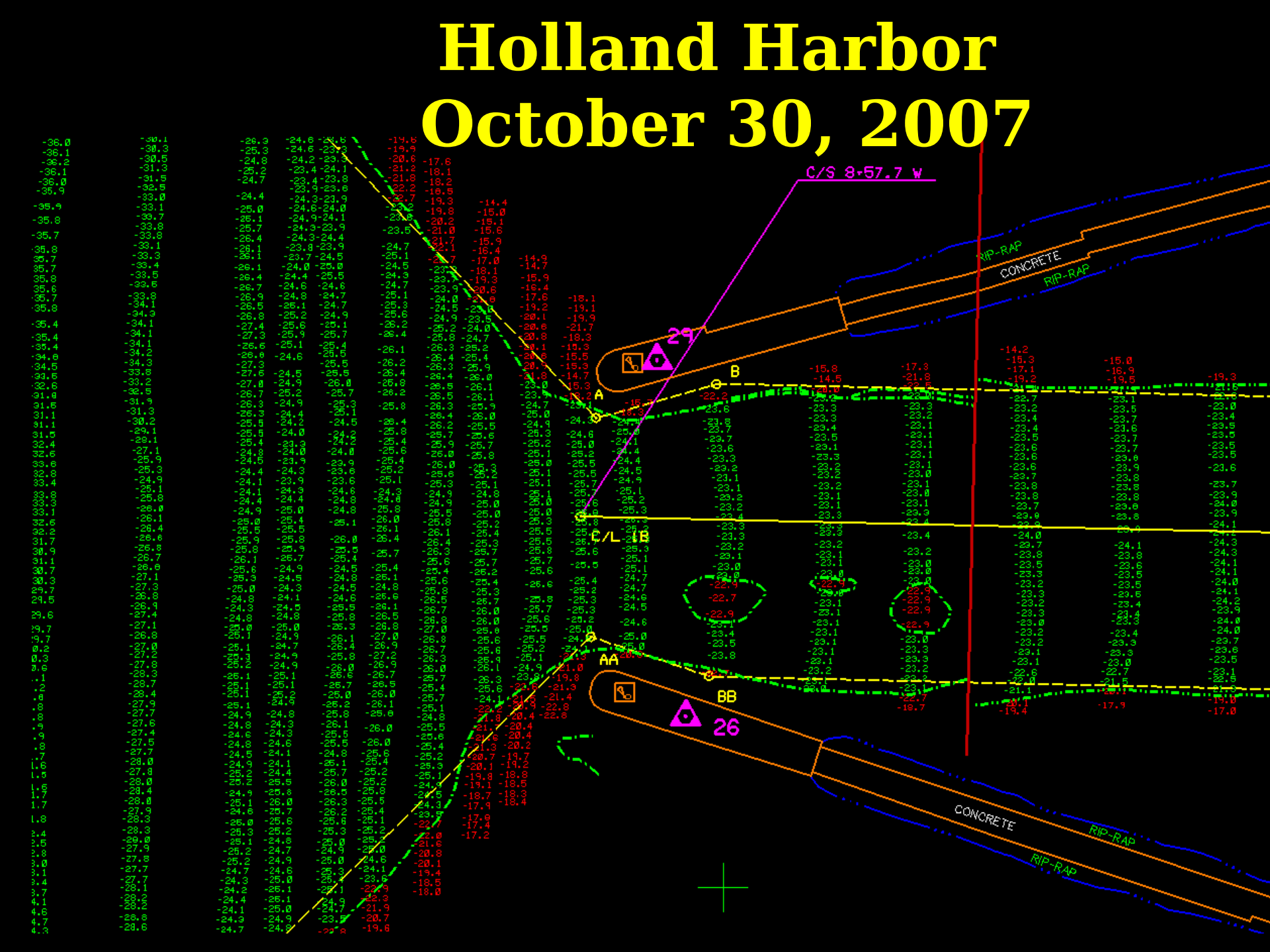
**Waukegan Harbor, IL**

- MID-OCTOBER 2007

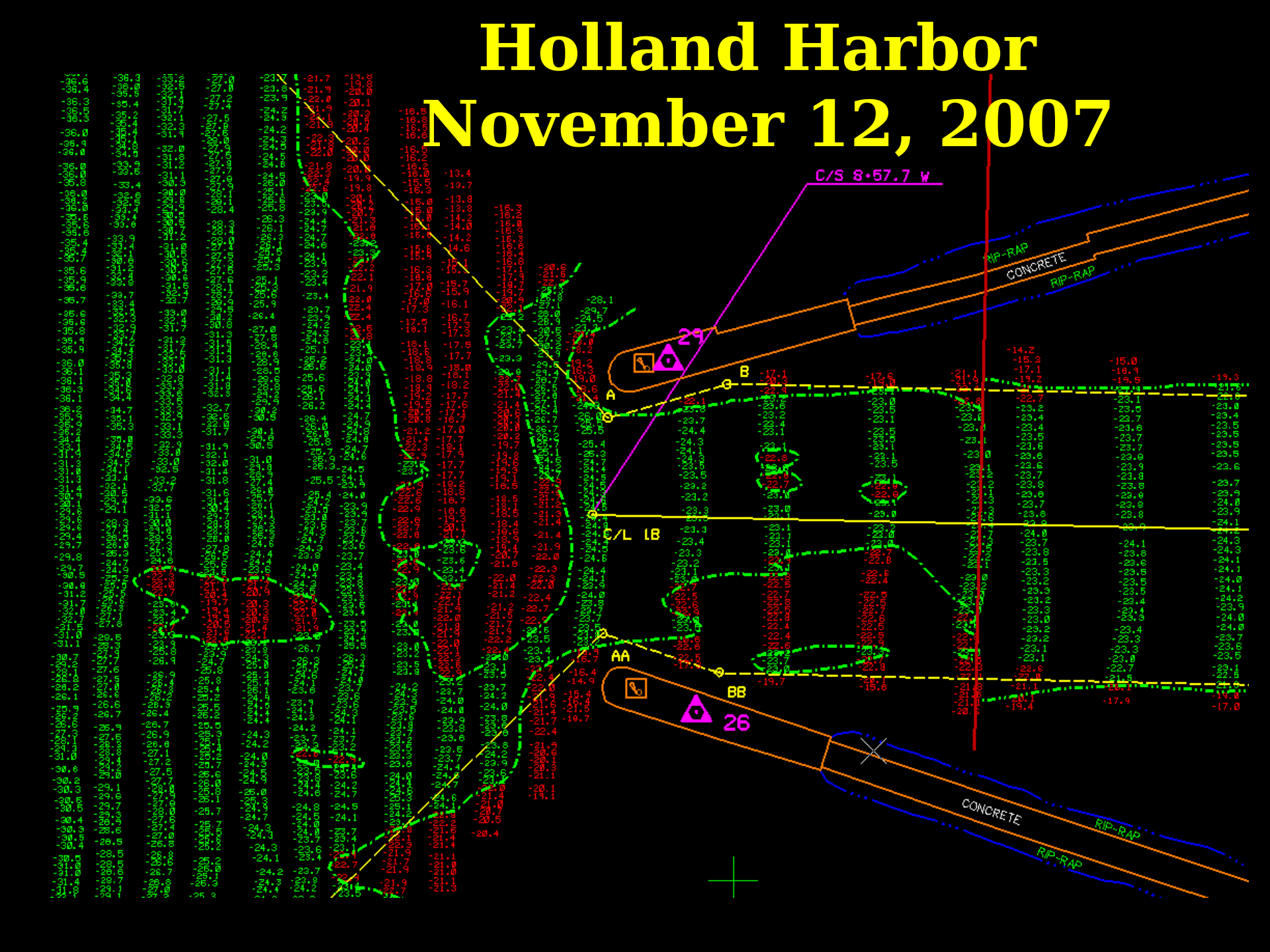
**Rochester Harbor, NY**

- 22 MAR 2007

# Holland Harbor
# October 30, 2007



# Holland Harbor
# November 12, 2007



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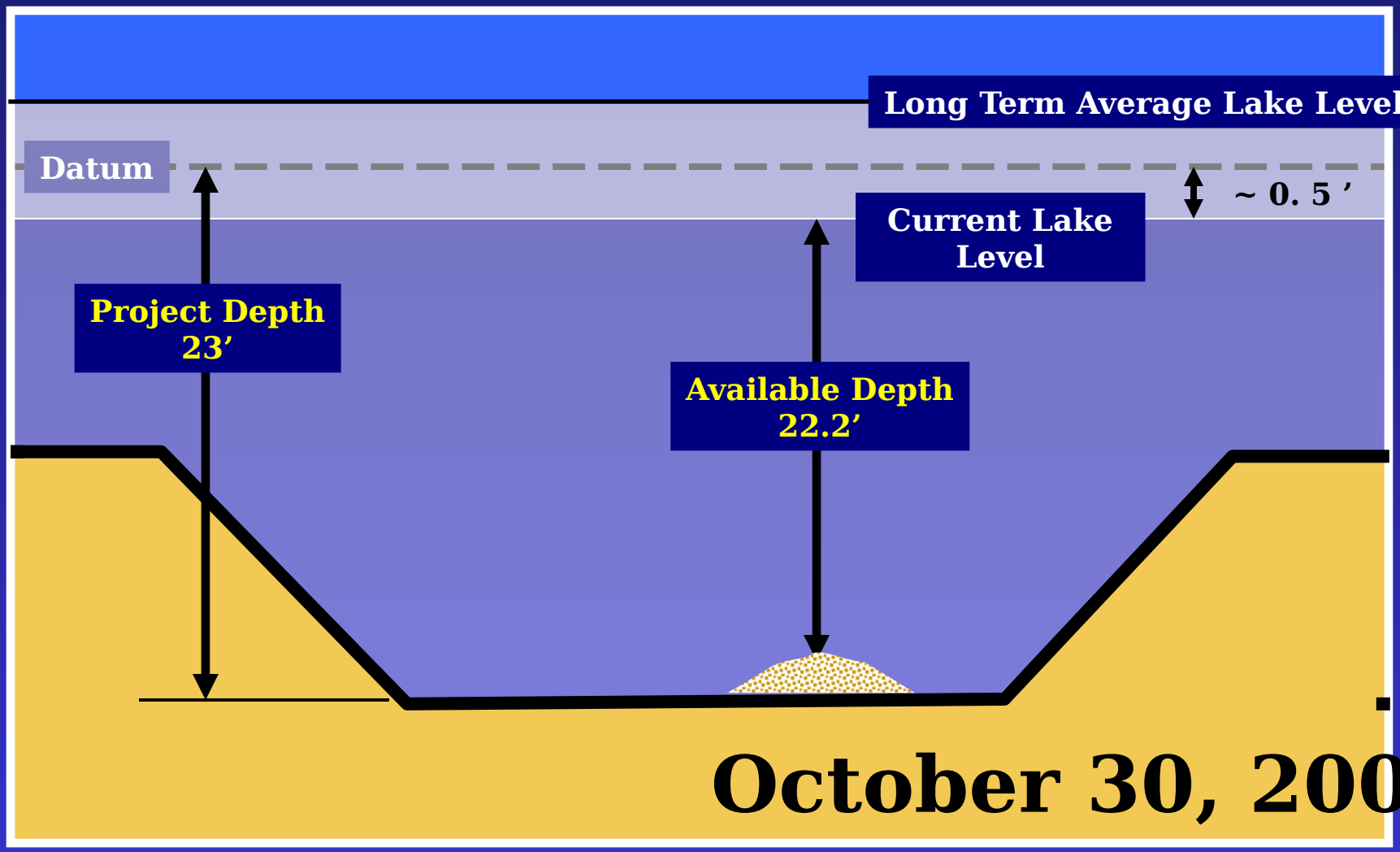
# Holland Harbor




**October 30, 2007**

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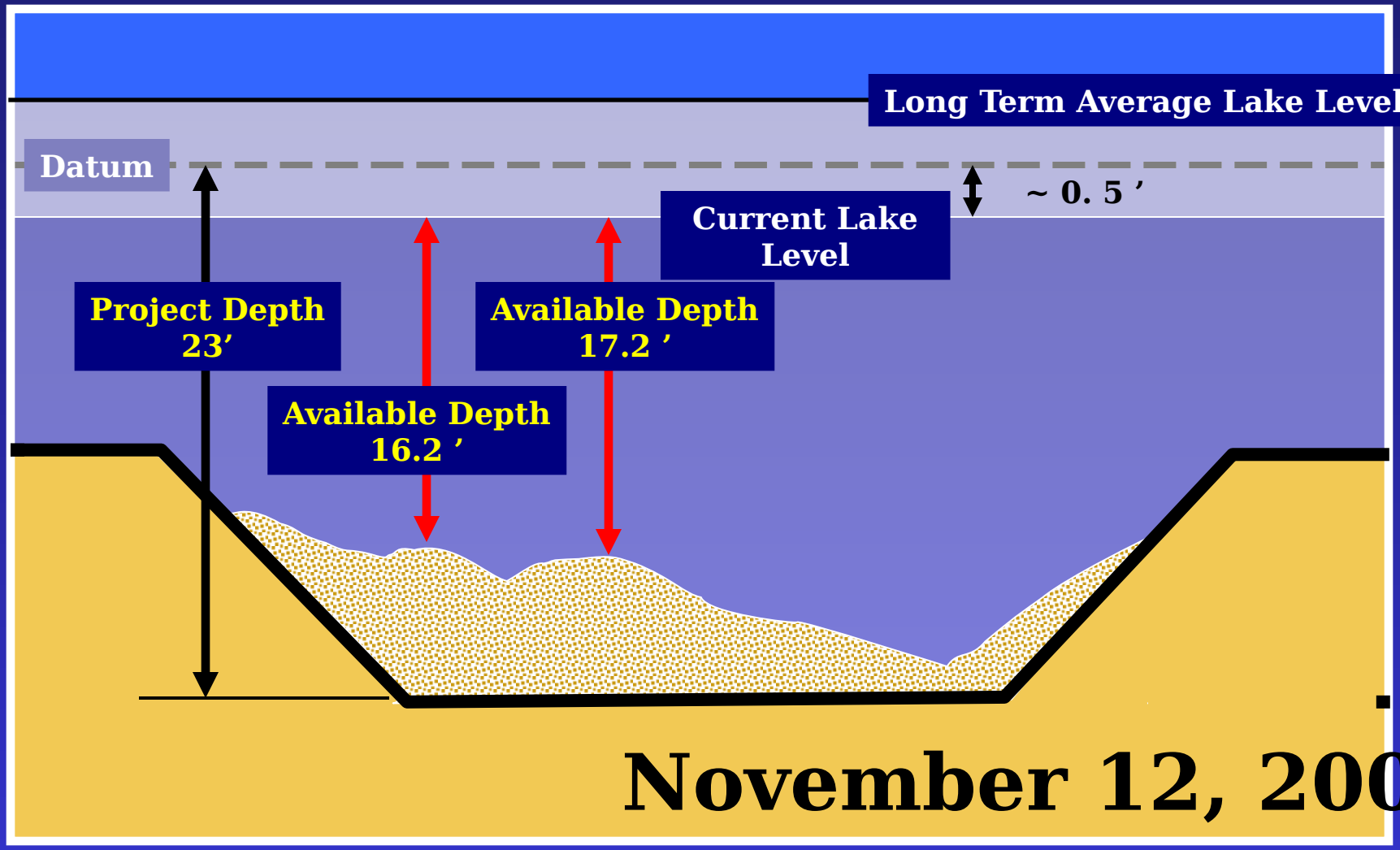
# Holland Harbor




**November 12, 2007**

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**Ohio River Division**

# Muskegon Harbor

US Army Corps
of Engineers
**Great Lakes &**
**Ohio River Division**

# Muskegon Harbor

# Muskegon Harbor

**American Integrity**
**September 10, 2007**

# Monroe Harbor

# Monroe Harbor

# Monroe Harbor

## Prior to Dredging

## After Dredging

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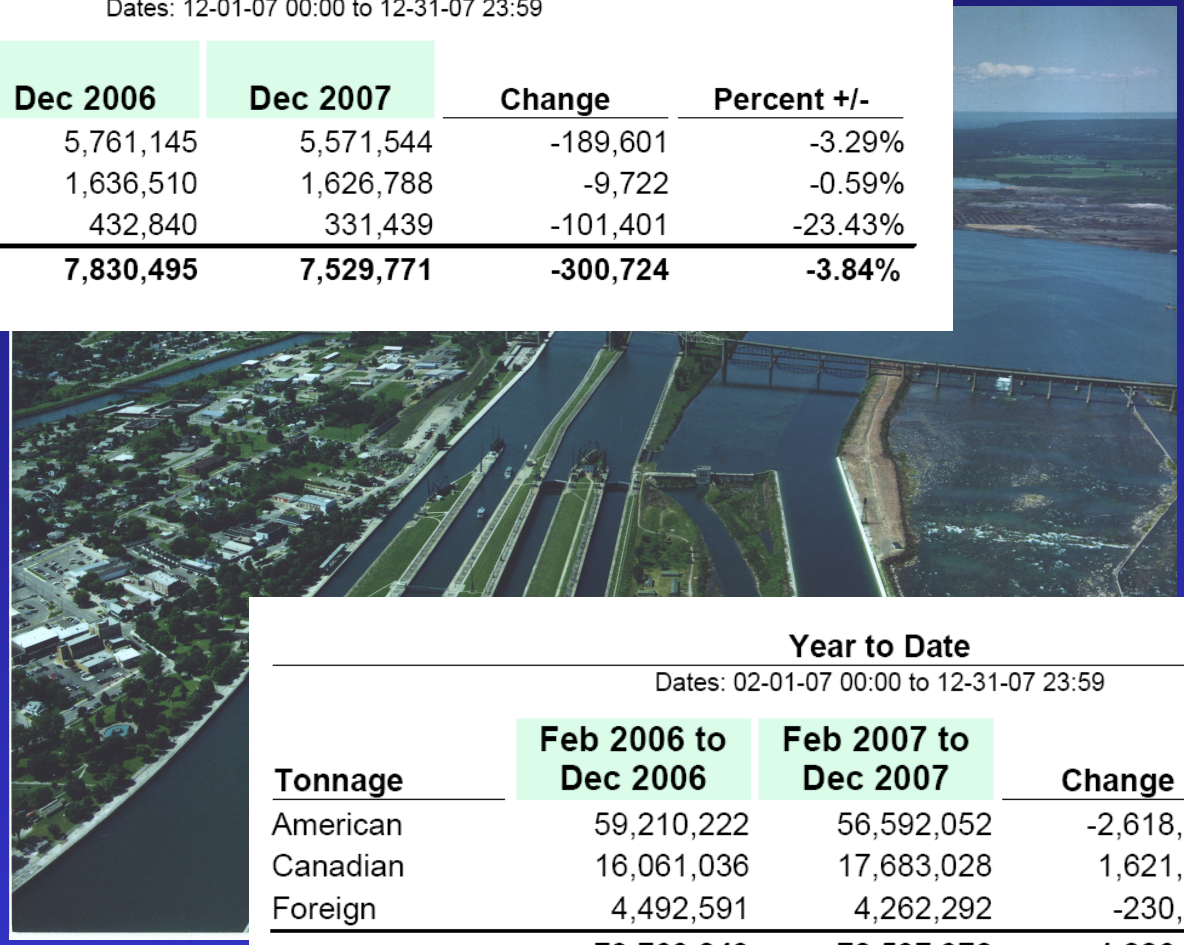
**Ohio River Division**

# Soo Locks Traffic

**Current Month: December 2007**

Dates: 12-01-07 00:00 to 12-31-07 23:59

| Tonnage | Dec 2006 | Dec 2007 | Change | Percent +/- |
|---|---|---|---|---|
| American | 5,761,145 | 5,571,544 | -189,601 | -3.29% |
| Canadian | 1,636,510 | 1,626,788 | -9,722 | -0.59% |
| Foreign | 432,840 | 331,439 | -101,401 | -23.43% |
| | **7,830,495** | **7,529,771** | **-300,724** | **-3.84%** |



**Year to Date**

Dates: 02-01-07 00:00 to 12-31-07 23:59

| Tonnage | Feb 2006 to Dec 2006 | Feb 2007 to Dec 2007 | Change | Percent +/- |
|---|---|---|---|---|
| American | 59,210,222 | 56,592,052 | -2,618,170 | -4.42% |
| Canadian | 16,061,036 | 17,683,028 | 1,621,992 | 10.10% |
| Foreign | 4,492,591 | 4,262,292 | -230,299 | -5.13% |
| | **79,763,849** | **78,537,372** | **-1,226,477** | **-1.54%** |

# FY07 Great Lakes Maintenance Dredging Projects

| Project | District | CYs | | |
|---|---|---|---|---|
| Alpena Harbor, MI | Detroit | 25,000 | | |
| Ashtabula, OH | Buffalo | | 60,000 | |
| Burns Harbor, IN (Hbr Nav Chnl) | Chicago | | | 80,000 |
| Cleveland, OH | Buffalo | | 225,000 | |
| Calumet Harbor, IL (Harbor Area) | Chicago | | | 90,000 |
| Detroit River, MI | Detroit | | 200,000 | |
| Duluth-Superior Harbor, MN&WI | | | Detroit | 100,000 |
| Fairport, OH | Buffalo | | 120,000 | |
| Grand Haven Harbor, MI (Outer) | Detroit | | | 30,000 |
| Green Bay Harbor, WI | Detroit | | 100,000 | |
| Holland Harbor, MI (Outer) | Detroit | | | 35,000 |
| Harbor Beach, MI | Detroit | 40,000 | | |
| Huron, OH | Buffalo | 90,000 | | |
| Manitowoc, WI | Detroit | | 50,000 | |
| Manistee Harbor, MI | Detroit | 90,000 | | |
| Maumee Bay, Toledo, OH | Buffalo | | | 600,000 |
| Maumee River, Toledo, OH | Buffalo | | | 100,000 |
| Ontonagon, MI | Detroit | | 56,000 | |
| Oswego, NY | Buffalo | | 35,000 | |
| Rochester, NY | Buffalo | | 150,000 | |
| Saginaw River, MI | Detroit | | 110,000 | |
| Sebewaing River, MI | Detroit | 35,000 | | |
| St. Clair River, MI | Detroit | | 40,000 | |
| St. Joseph Harbor, MI (Outer) | Detroit | | | 40,000 |
| Waukegan Harbor, IL (Inner) | Chicago | | | 70,000 |

# FY08 Omnibus Operation and Maintenance

- **Great Lakes Navigation (backlog dredging) $6,**
  - **Based on maximizing transportation savings**
  - **Take into account relationships among harbor**
  - **Coordinate with House and Senate Committee**

- **Michigan Harbors, MI**
  - **30 harbors, less than 10 budgeted**
  - **Additional funds provided on Michigan harbor**
  - **30 days to develop dredging plan**

- **Lake Superior Small Harbor Dredging $1,564,0**
  - **7 shallow draft harbors**

# Great Lakes / St. Lawrence Seaway System Study

## Background:

- **Binational Study**
- **Study partners include: USACE, USDOT, USFWS, Transport Canada, Environment Canada Seaway Corporations**
- **Baseline evaluation of condition & reliability of marine infrastructure**
- **Engineering, Economic & Environmental assessment of factors associated with continued O&M of system**

# Great Lakes / St. Lawrence Seaway System Study

## Status:

- **Final report released November 2007, and formal public feedback period closes January 18, 2008**

- **Presents commodity forecasts and importance of the commercial navigation system to meeting future transportation needs of the region (economic, congestion alleviation).**

- **Identifies high priority infrastructure maintenance requirements which need to be addressed in order to maintain system reliability. Identifies economic impacts of not maintaining system reliability.**

- **Highlights key considerations related to how to sustain system operations in a way that responds to concerns about environmental integrity.**